South Dakota

Science and Engineering Profile

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999[1]	1,070	518,670	51	Total R&D performance, 1998 (millions)	$60	$214,668	51
Doctoral engineers, 1999[1]	80	107,100	51	Industry R&D, 1998 (millions)	$5	$163,480	50
S&E doctorates awarded, 1999[1]	30	25,953	50	Academic R&D, 1998 (millions)	$25	$25,342	52
of which, in life sciences	37%	25%		of which, in life sciences	61%	57%	
in psychology	23%	14%		in environmental sciences	12%	6%	
in physical sciences	20%	14%		in engineering	11%	16%	
S&E postdoctorates, 1998[1]				Public higher education current-fund			
in doctorate-granting institutions	10	39,494	52	expenditures, 1997 (millions)	$294	$125,236	51
S&E graduate students, 1998[1]				Number of SBIR awards, 1990-98	28	35,413	48
in doctorate-granting institutions	1,120	422,834	48	Patents issued to state residents, 1999	66	83,901	48
Population, 1999 (thousands)	733	276,580	47	Gross state product, 1998 (billions)	$21	$8,800	48
Civilian labor force, 1999 (thousands)	400	140,536	46	of which, agriculture	9%	1%	
				manufacturing, mining, construction	18%	22%	
Personal income per capita, 1999	$25,045	$28,542	37	transportation, communication, utilities	8%	9%	
				wholesale and retail trade	16%	16%	
Federal spending				finance, insurance, real estate	20%	19%	
Total expenditures, 1999 (millions)	$4,909	$1,508,933	48	services	16%	21%	
R&D obligations, 1998 (millions)	$46	$70,445	50	government	12%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies	46,003	27,501	0	6,083	9,429	2,125	865	50
Department of Agriculture	7,007	4,018	0	0	2,989	0	0	44
Department of Commerce	677	102	0	0	0	575	0	45
Department of Defense	1,799	729	0	398	672	0	0	52
Department of Energy	50	0	0	0	50	0	0	50
Dept. of Health & Human Services	2,578	740	0	365	1,323	50	100	50
Department of the Interior	13,526	8,631	0	4,846	49	0	0	9
Department of Transportation	781	0	0	16	0	0	765	48
Environmental Protection Agency	275	0	0	0	275	0	0	47
National Aeronautics and Space Admin	15,950	13,281	0	40	1,129	1,500	0	29
National Science Foundation	3,360	0	0	418	2,942	0	0	50
State rank, total	50	42	na	47	52	43	48	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".